

FIG. 1

10

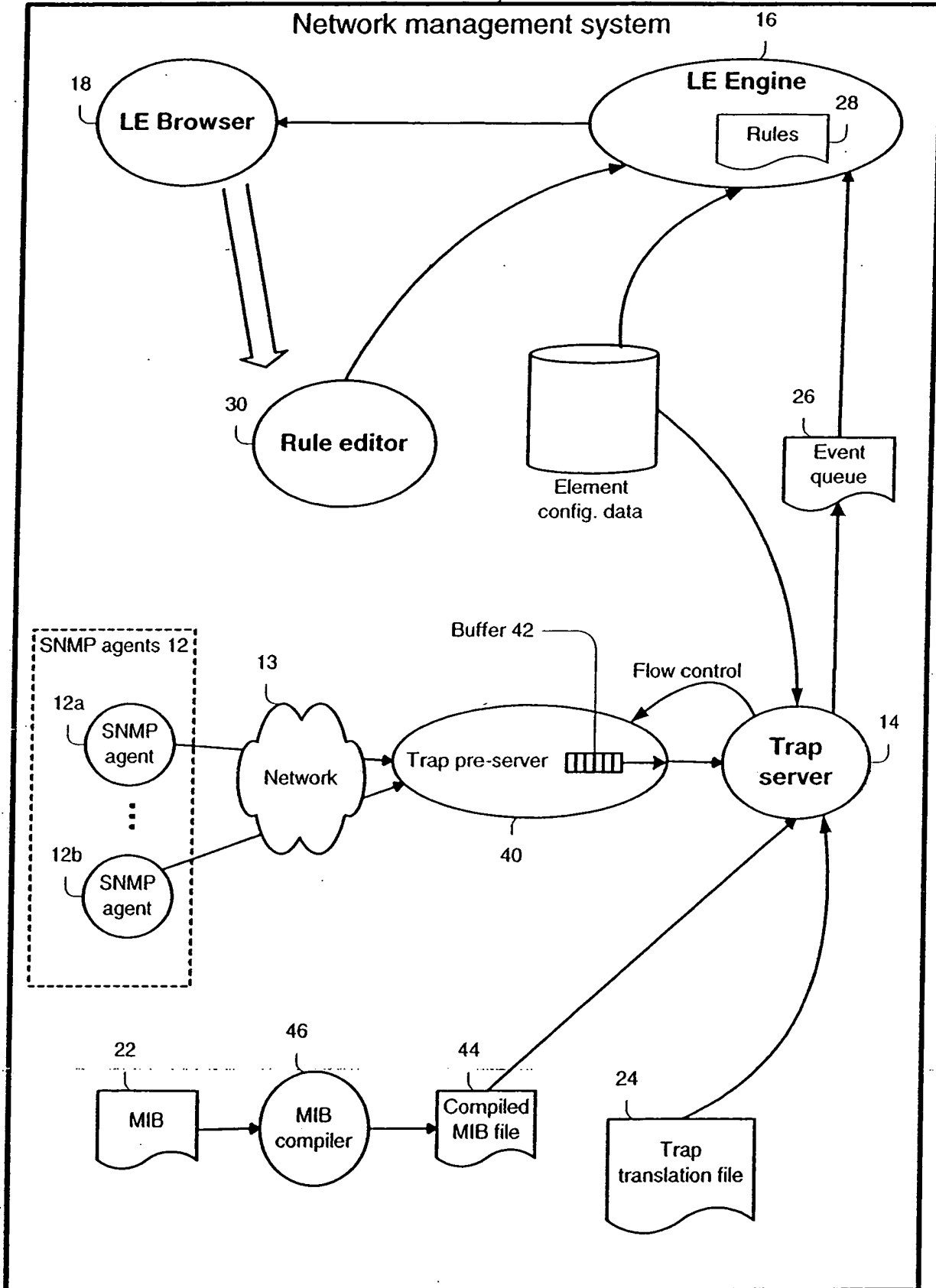


FIG. 2

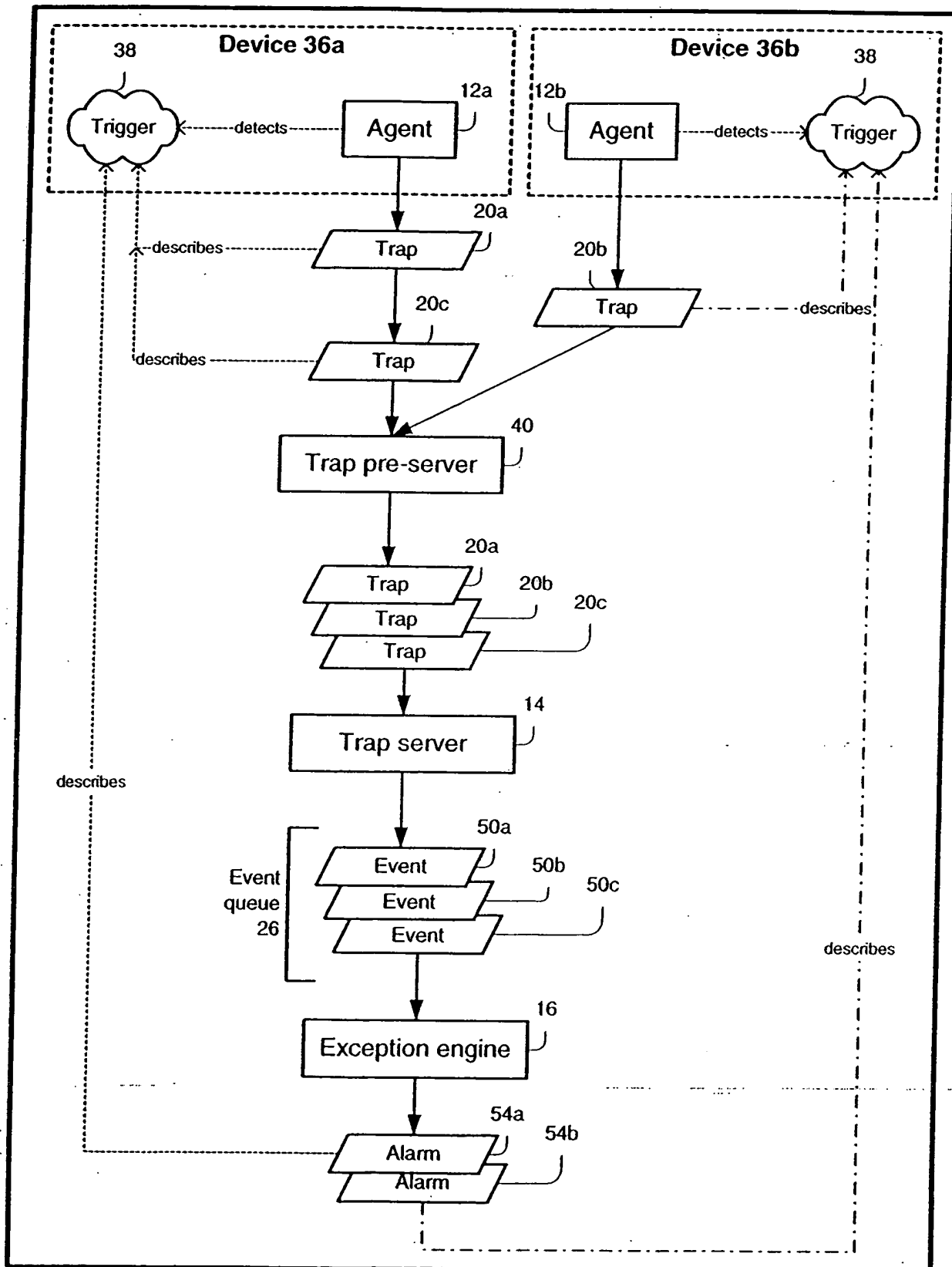


FIG. 3

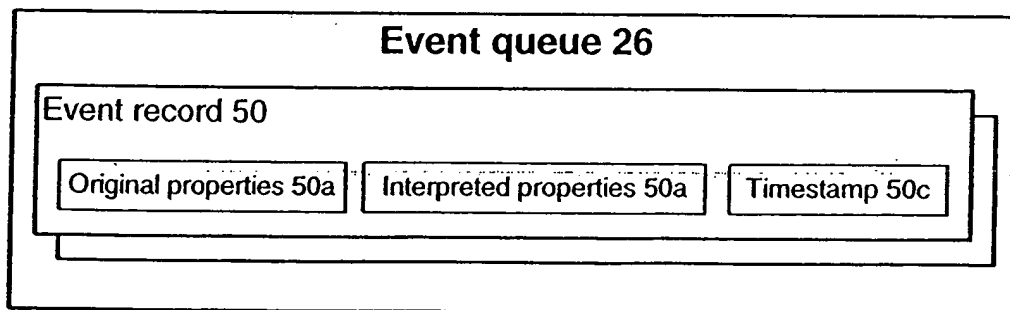
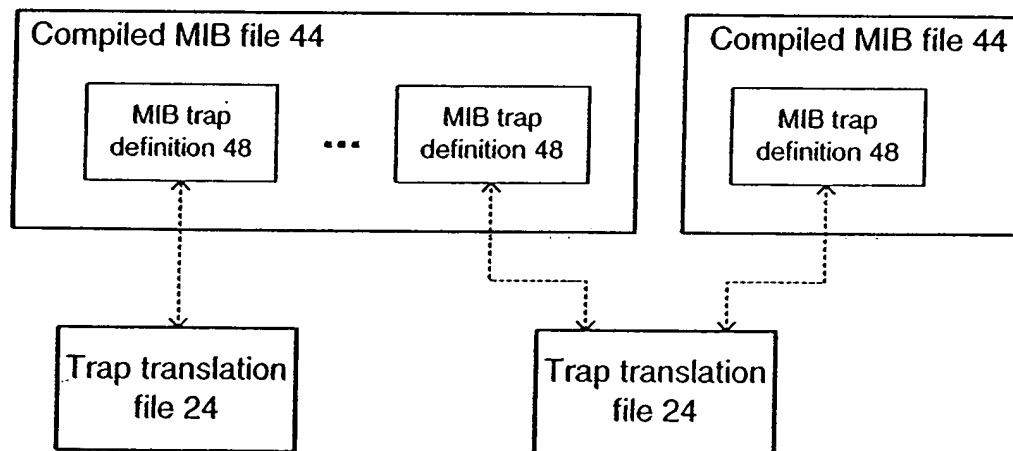
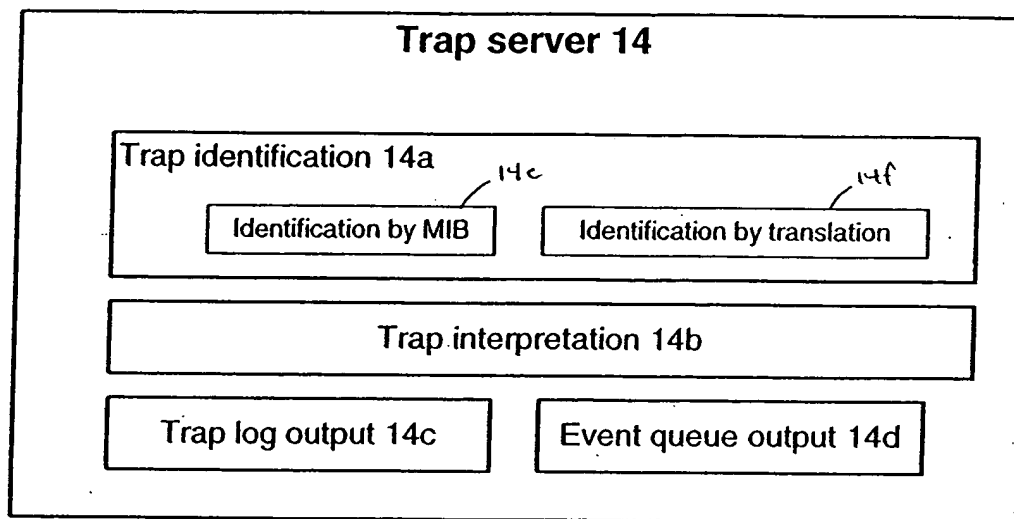


FIG. 4A

Matching expression 24d

Trap translation file 24

Classification
section, 24a

```
acceptExpr = trapGenericType = enterpriseSpecific &  
              trapSpecificType = frDLCIStatusChange &  
              frCircuitState = invalid
```

Element
mapping
section, 24b

```
ipAddress = trapIpAddress
```

Information
extraction
section, 24c

```
eventName      = "DlciInvalid"  
eventDescription = "A Frame Relay circuit DLCI has become invalid"  
eventType      = "DlciStatusChange"  
matchKey       = format ("$(1):$(2):$(3):$(4)", trapSpecificType,  
                          trapEnterprise, frCircuitIndex, frCircuitDlci)  
component      = format ("Interface $(1) DLCI $(2)", frCircuitIndex,  
                          frCircuitDlci)  
userMessage    = format ("DLCI $(1) on link $(2) is not reachable",  
                          frCircuitDlci, frCircuitIndex)  
eventCarrier    = "Trap: frDLCIStatusChange"  
trapSense      = set
```

FIG. 4B

TrapRule FrameRelayLinkDown

```
{  
  acceptExpr = trapGenericType = enterpriseSpecific &  
                trapSpecificType = frDLCIStatusChange &  
                frCircuitState = invalid  
  
  eventName = "DlciInvalid"  
  eventDescription = "A Frame Relay circuit DLCI has become invalid"  
  eventType = "DlciStatusChange"  
  ipAddress = trapIpAddress  
  matchKey = format ("$(1):$(2):$(3):$(4)",  
                    trapSpecificType, trapEnterprise,  
                    frCircuitIndex, frCircuitDlci)  
  component = format ("Interface $(1) DLCI $(2)",  
                    frCircuitIndex, frCircuitDlci)  
  userMessage = format ("DLCI $(1) on link $(2) is not reachable",  
                    frCircuitDlci, frCircuitIndex)  
  eventCarrier = "Trap: frDLCIStatusChange"  
  trapSense = set  
}
```

FIG. 5

Rule 28

Element type 28a

Severity 28b

Rule message 28c

Rule option 28d

Type reference 28e

Event type 28f

Event name 28g

Instance ID 28h

Detection patterns 56

Basic rule 58

Ignore clear 58a

Initial duration 58b

Extension increment 58c

Window maximum 58d

Time over threshold 60

~~Ignore clear 60a~~

~~Initial duration 60b~~

~~Extension increment 60c~~

~~Window maximum 60d~~

Rate threshold 60e

Sample period 60f

Occasion limit 60g

Sliding duration 60h

Cumulative rate 62

Ignore clear 62a

Initial duration 62b

Extension increment 62c

Window maximum 62d

Rate threshold 62e

Sample period 62f

Cumulative limit 62g

Sliding duration 62h

FIG.
6A

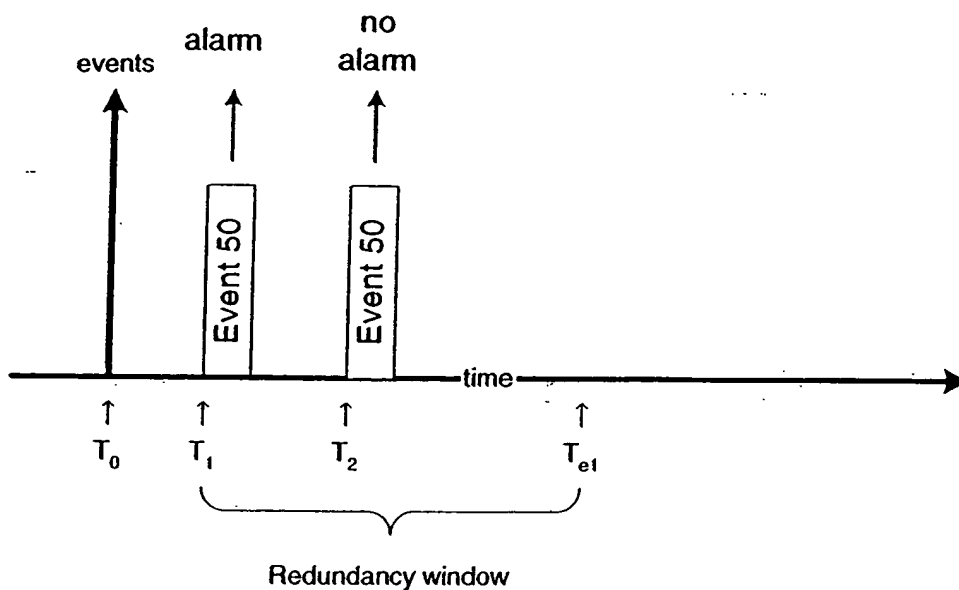


FIG.
6B

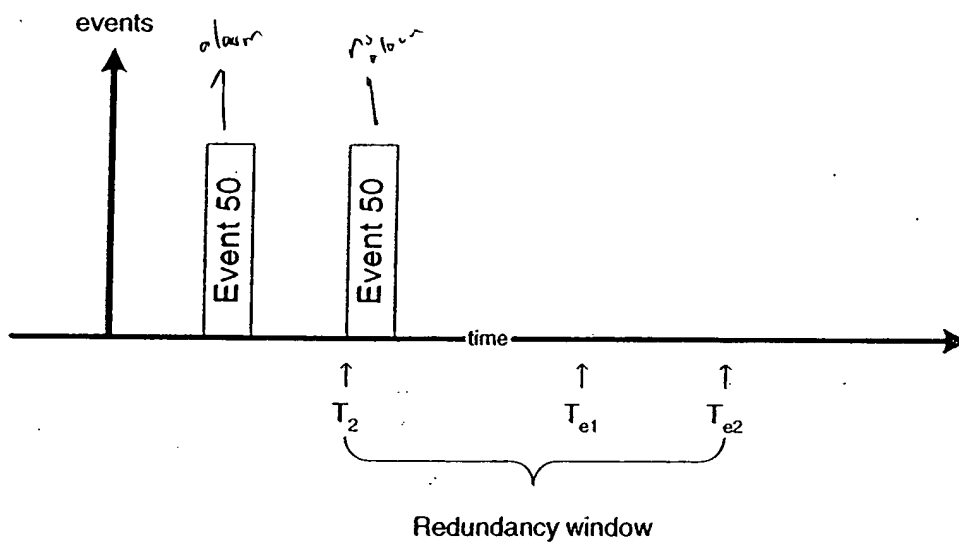
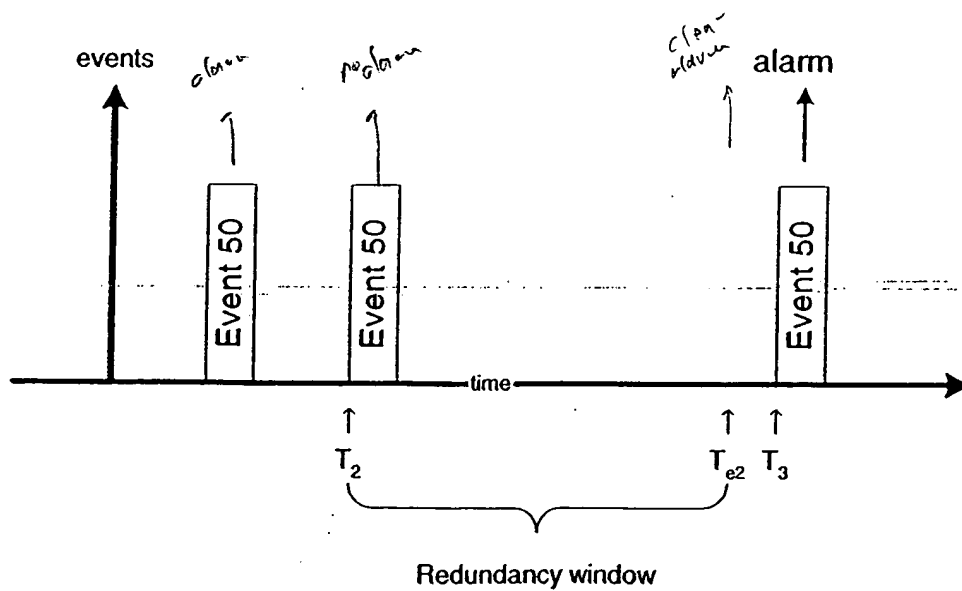


FIG.
6C



Rule Editor

Element Type:

Severity: ☒

Rule Message:

Rule Option: ☐ Variable
☐ Availability
☐ Readability
☒ Every

Event Type: ☒ Event Name: ☒ Rule Type: ☒

Clear After: ☒

☒ Ignore Clear Events

FIG. 7

Rule Editor

Element Type:

Severity: ☒

Rule Message:

Rule Option: ☐ Variable
☐ Availability
☐ Readability
☒ Every

Event Type: ☒ Event Name: ☒ Rule Type: ☒

Above Threshold of: ☒

FIG. 8

Rule Editor

Element Type: Attribute Conditions:

Severity:

Rule Message:

Rule Option: ☐ Variable ☐ Availability ☐ Reachability ☒ Event

Event Type: Event Name: Rule Type:

Above Threshold of: per

Time For: minutes out of minutes

FIG. 9

Attribute Conditions

Conditions

	appType	=	Oracle
AND	appKey	~	Oracle

FIG. 10

New Attribute Condition

Attribute Condition

Oracle
SAP
PeopleSoft
Web

FIG. 11

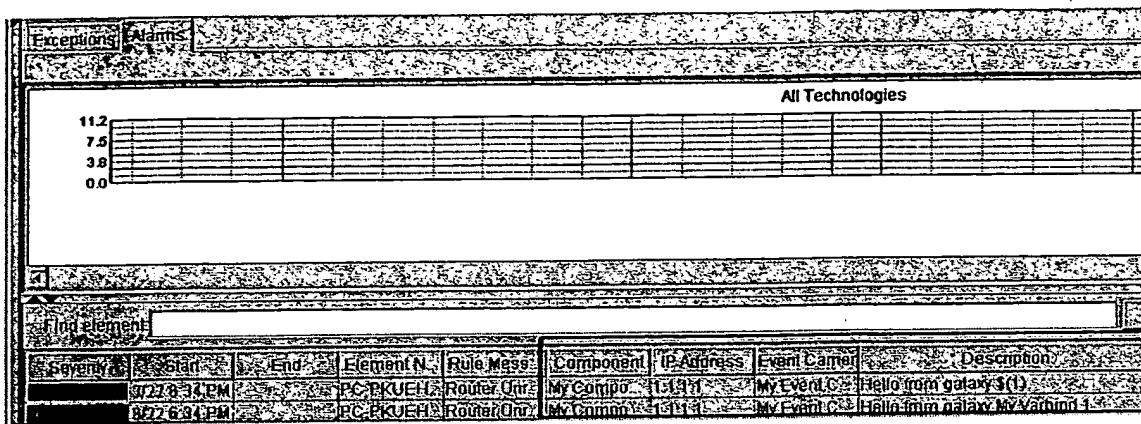


FIG. 12

Element	Component	Profile	Group	Alarm Type	StartTime	EndTime		Count
Router1	Interface1	X	Y	1	12:00	1:00	...	5
Router1	Interface2	X	Y	1	12:00	1:00	...	3
Router1	Interface3	X	Y	1	12:00	2:00	...	1
Router2	Interface1	X	Y	1	12:00	1:00	...	6

FIG. 13A

Element	Component	Profile	Group	Alarm Type	StartTime	EndTime		Count
Router1	*	X	Y	1	12:00	1:00	...	8
Router1	*	X	Y	1	12:00	2:00	...	1
Router2	*	X	Y	1	12:00	1:00	...	6

FIG. 13B

Element	Component	Profile	Group	Alarm Type	StartTime	EndTime		Count
Router1	*	X	Y	1	12:00	*	...	9
Router2	*	X	Y	1	12:00	*	...	6

FIG. 13C

Element	Component	Profile	Group	Alarm Type	StartTime	EndTime		Count
System1	Oracle	X	Y	Xaction rate	12:00	1:00	...	4
System2	Oracle	X	Y	Error	12:00	1:00	...	6
System3	Oracle	X	Y	Error	12:00	1:00	...	2
System4	Oracle	X	Y	Error	12:00	1:00	...	3

FIG. 14A

Element	Component	Profile	Group	Alarm Type	StartTime	EndTime		Count
*	Oracle	X	Y	Xaction rate	12:00	1:00	...	4
*	Oracle	X	Y	Error	12:00	1:00	...	11

FIG. 14B

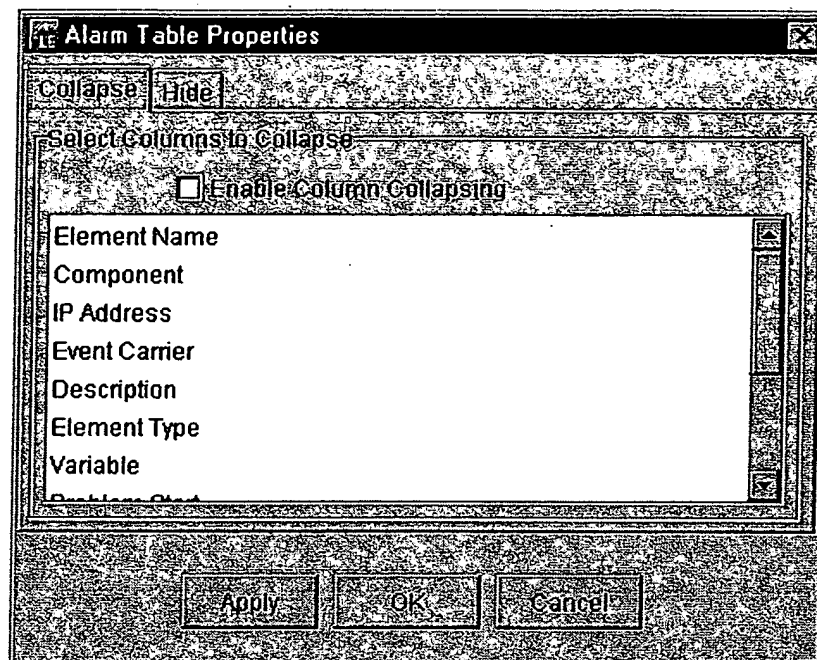


FIG. 15

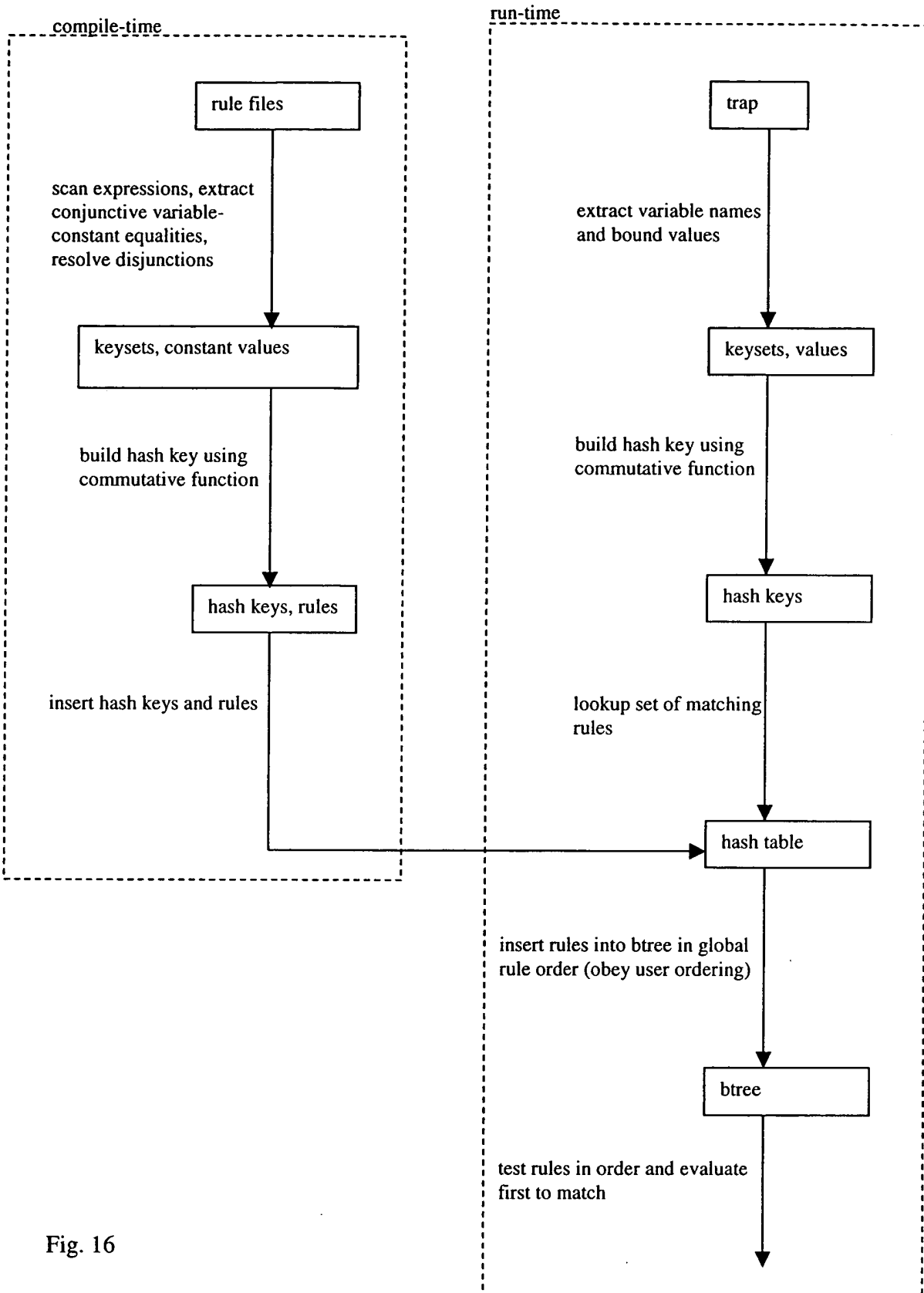


Fig. 16

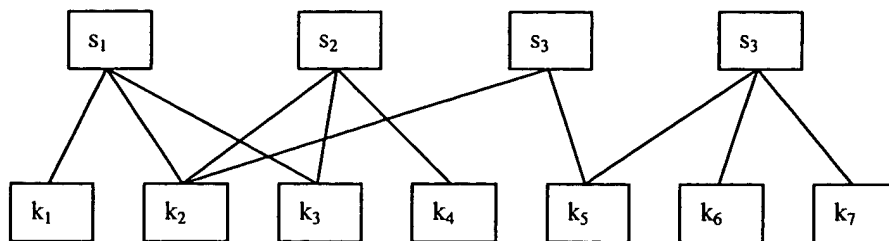


FIG. 17

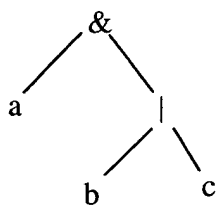


FIG. 18